

What is claimed is:

- 1 1. Mechanical transmission part exposed at least partially
2 to the open air, more specifically a wiper arm (10), made of a plastic material
3 and containing connection means arranged on the end portions of the part,
4 characterized by being formed, outside of the end portions (16, 18), by a
5 body part (12), forming streamlining and made of a thermoplastic material
6 filled with notably no more than 30% fibers, and a flange part (14) not
7 directly exposed, made of a thermoplastic material filled with notably less
8 than 40% fibers.
- 1 2. Transmission part according to specification 1,
2 characterized by the thermoplastic material of the body part is notably filled
3 with between 20 and 30 % fibers, and the thermoplastic materials of the
4 flange part is notably filled with between 40 and 50% fibers.
- 1 3. Transmission part according to specification 1 or 2
2 characterized by the fibers being glass or textile fibers, and by a system of
3 ribs (13), coming from casting, placed on the interior of the body-flange unit.
- 1 4. Transmission part according to one of the preceding
2 specifications, characterized by the body (12) and the flange (14) forming
3 two parts solidified and by the body (12) presenting two lateral side walls
4 (12a, 12b) linked by a back (12c) and finished by ends (12e), the system or
5 ribs (13) belonging at least partially to the body and the flange.
- 1 5. Transmission part according to specification 4,
2 characterized by the two parts being assembled by gluing, soldering,
3 screwing, riveting, or clipping.

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4 6. Transmission part according to specification 5
5 characterized by the body resting on the flange, the unit being created on
6 the ends (12e) of the lateral side walls of the body.

7 7. Transmission part according to any of specifications 4 to
8 6, characterized by, in the situation where the part is a wiper arm (10), the
9 washer canal and sprayers are directly integrated into the flange.

10 8. Transmission part according to specification 1,
11 characterized by being constructed from casting, the body and the flange
12 being pre-filled with fibers or selectively filled outside of casting.

13 9. Transmission part according to any of the preceding
14 specifications, characterized by the flange (14) being inclined in relation to
15 the longitudinal axis (X/X) of the body in order to improve the aerodynamic
16 performance of the arm.

1 10. Transmission piece according to any of the preceding
2 specifications, characterized by the flange being created with a variable
3 thickness and/or a convex curve at one of the ends of the part, the geometry
4 of the ribs being adapted to the geometry of the flange.

5 11. Transmission part according to any of the preceding
6 specifications, characterized by the body (12) presenting, in a transversal
7 cut, a polygon shape provided there are rounded tops.

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